



FLOOD FORECASTING SYSTEM DEVELOPMENT

Introduction to Setting Up and Running a Modern Flood Forecasting System

This two-day, hands-on course provides an introduction to the features, functionality and workflow of the MIKE INFO tool for hydrometric data management, analysis and mapping, as well as the MIKE OPERATIONS tool for modelling and real-time, operational forecasting. The training combines informative presentations to introduce concepts, data requirements and workflows, with guided, hands-on exercises. The exercises will guide the participants through the steps needed to setup a project, import monitoring data, import models, set up forecasting scenarios, run the simulations, and report the results.

The training will also provide an introduction to the process of developing and implementing a model adaptor that allows MIKE OPERATIONS to communicate with third party hydraulic and hydrologic models.

DAY 1

- 09:00 – 10:30 – Presentation: Introduction to MIKE OPERATIONS
- 10:30 – 10:45 – Break
- 10:45 – 12:00 – Setting up a project and importing time-series data
- 12:00 – 13:00 – Lunch
- 13:00 – 14:30 – Importing models
- 14:30 – 14:45 – Break
- 14:45 – 16:00 – Setting up and running model scenarios
- 16:00 – 17:00 – Setting up and running a forecasting model

DAY 2

- 09:00 – 10:30 – Setting up an operational dashboard
- 10:30 – 10:45 – Break
- 10:45 – 12:00 – Presentation: Model adaptor principles
- 12:00 – 13:00 – Lunch
- 13:00 – 14:30 – How to develop a simple model adaptor
- 14:30 – 14:45 – Break
- 14:45 – 17:00 – How to develop a complex model adaptor

TARGET GROUP AND PREREQUISITES

This course is targeted towards the needs and interests of the HQP's involved in the FLOODNET research project. Experience with hydrologic and hydraulic modelling of river systems is required for Day 1 while experience with C# programming is required for Day 2 topics.

DATE AND TIME

May 3-4, 2016
09:00 - 17:00

LOCATION AND VENUE

Hamilton, ON
McMaster University
Burke Science Building (BSB), Room 340
1280 Main Street West
Hamilton, ON

FEES

Training is free of charge for FLOODNET researcher and partners.

THIS IS INCLUDED

- Training material
- DHI Software and licenses
- Lunch and refreshments
- Training Certificate

THIS IS WHAT YOU NEED TO BRING

- Laptop computer
- C# programming software (e.g Visual Studio)

LANGUAGE

Lectures and training material are in English.

REGISTRATION AND CONTACT

Deadline for registration is April 27 2016. A minimum of 6 trainees is required for the course to proceed. DHI reserves the right to reschedule the training course up to 2 weeks prior to the course date scheduled.

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RELATED COURSES

- MIKE HYDRO River - Advanced hydrodynamic modelling
- MIKE FLOOD - River flood modelling
- MIKE FLOOD - Integrated pipes, channels and surface modelling
- MIKE HYDRO RR - Rainfall - Runoff modelling



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EXAMPLES OF INSTRUCTORS

PATRICK DELANEY

Patrick Delaney is President of DHI Canada, and Manager of MIKE Powered by DHI Software Products for the Americas. Patrick has more than 20 years of experience in the development and application of water modeling tools and technologies for a variety of interdisciplinary water management projects. He has led a large number of professional training classes for groundwater modeling, integrated watershed modeling, urban flood modeling and river system flooding. He has advised major clients working on local, regional, national, and international projects.



MASc, Civil Engineering, University of Waterloo, Ontario Canada

DYLAN KLIME

Dylan Kime is a Software Development Manager and has a MSc in Hydrology. Dylan has been responsible for the development, implementation and customization of numerous water information management systems for a variety of clients including the City of Cape Town and Umgeni Water in South Africa. Dylan has a good understanding of databases and is proficient in a number of software development languages including C#, ASP.NET, SQL, JavaScript, HTML, CSS and XML. This combined with his education in Hydrology makes him very proficient in information management systems for water environments.



MSc, Hydrology, University of KwaZulu-Natal, South Africa

THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

Learn more about THE ACADEMY on www.theacademybydhi.com

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